ENHWI-N3

802.11n Wireless Router

Product Description

Encore's ENHWI-N3 802.11n Wireless Router's 1T1R Wireless single chip can deliver up to 3x faster speed than of 802.11g devices. ENHWI-N3 supports home or small office network with superior throughput and performance and unparalleled wireless range. With easy to use WPS™ function, it helps users securely connect to a wireless device with just one push of a button.

ENHWI-N3 is also equipped with a built-in 4-port full-duplex 10/100 Fast Ethernet Switch to connect to your wired-Ethernet computers and devices together to make a LAN. The Router function ties it all together and lets your whole network computers and laptops able to browse the internet and share the high-speed cable or DSL Internet connection using just one public IP address.

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Key Features

- Compatible with IEEE 802.11n Draft 2.0 Specifications, provides wireless speed up to 150 Mbps physical data rate
- Backward compatible with IEEE 802.11g high rate standard to provide wireless Ethernet speeds of 54 Mbps data rate
- 4 x 10/100 Mbps Fast Ethernet port for wired LAN with Auto MDI-X function
- 1 x 10/100Mbps WAN port for DSL or Cable Modem with Auto MDI-X function
- IEEE 802.11 b/g/n Infrastructure operating modes
- Allows auto fallback data rate for optimized reliability, throughput and transmission range
- Supports wireless data encryption with 64/128-bit WEP standard for security
- Supports enhance security for WPA-PSK, WPA2-PSK, WPA and WPA2
- Web-based configuration tools and management via WEB Browser
- Supports WPS™ (Wi-Fi Protected Setup Specification Windows)
- Supports PPPoE / PPTP / L2TP protocol for xDSL ISP connection
- Supports NAT feature to share one public IP address to all LAN user
- Supports DHCP Server / Client
- Supports Firewall protection, Virtual server mapping, Special application setting
- Supports UPnP
- Supports statistics information

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HARDWARE SPECIFICATION

MCU (Chipset)	Ralink RT3050, 320MHz embedded RF/MAC/BBP
Memory	16MB SDRAM
Flash	4MB
Interface Ports	*WAN:* One 10/100 Fast Ethernet RJ-45 *LAN:* Four 10/100 Fast Ethernet RJ-45 Reset Button Power Input Port Jack WPS™ (WiFi Protected Setup) Button
LED Status	Power Status WAN (Internet connection) 10/100Mbps LAN1 to LAN4 WLAN (Wireless Connection)
Power Requirements	Power Supply: (Full Range) 200 to 240 VAC ± 10% (ETSI) Europe 100 to 120 VAC ± 10% (FCC) US Device Input Power: 12 VDC / 1A

RF SPECIFICATION

Frequency Band	2.400～2.484 GHz
Modulation Technology	• OFDM: BPSK, QPSK, 16-QAM, 64-QAM • DBPSK, DQPSK, CCK
Operating Channels	11 for North America, 13 for Europe

<table>
<tr><td>Wireless Settings</td><td>

Wireless Mode – 802.11b / 802.11g /802.11n Draft 2.0
Channel Selection (Varies by Country or Region)
Channel Bandwidth (Auto 20/40 MHz, 20MHz, 40MHz)
Transmission Rate

- 11g: Best=54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps
<table>
<tr><td rowspan="2">MCS Index</td><td colspan="2">Guard Interval 800 ns</td><td colspan="2">Guard Interval 400 ns</td></tr>
<tr><td>20MHz (Mbps)</td><td>40MHz (Mbps)</td><td>20MHz (Mbps)</td><td>40MHz (Mbps)</td></tr>
<tr><td>0</td><td>6.5</td><td>13.5</td><td>7.2</td><td>15</td></tr>
<tr><td>1</td><td>13</td><td>27</td><td>14.4</td><td>30</td></tr>
<tr><td>2</td><td>19.5</td><td>40.5</td><td>21.7</td><td>45</td></tr>
<tr><td>3</td><td>26</td><td>54</td><td>28.9</td><td>60</td></tr>
<tr><td>4</td><td>39</td><td>81</td><td>43.3</td><td>90</td></tr>
<tr><td>5</td><td>52</td><td>108</td><td>57.8</td><td>120</td></tr>
<tr><td>6</td><td>58.5</td><td>121.5</td><td>65</td><td>135</td></tr>
<tr><td>7</td><td>65</td><td>135</td><td>72.2</td><td>157.5</td></tr>
</table>
</td></tr>
<tr><td>Receive Sensitivity (Typical)</td><td>

IEEE802.11n - MCS0@ -91dBm, MCS7@ -74dBm
IEEE802.11g - 6Mbps@ -90dBm, 54Mbps@ -70dBm
IEEE802.11b - 1Mbps@ -90dBm, 11Mbps@ -87dBm

</td></tr>
<tr><td>Available Transmit Power</td><td>

IEEE802.11n - MCS7@ 15dBm
IEEE802.11g - 6~54 Mbps@ 15dBm
IEEE802.11b - 1, 11Mbps@ 16dBm

</td></tr>
<tr><td>Antenna X1</td><td>Peak Gain = 2 dBi with SMA connector</td></tr>
</table>

Environmental and Physical

Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15%～95% typical
Dimensions	138mm (L) x 97mm (W) x 25mm (H)

SOFTWARE FEATURES

Router and Gateway

Topology	Infrastructure
Operation Modes	AP / Router
LAN	• DHCP Server • Static Routing Table • UPnP
WAN	• PPTP • PPPoE • L2TP • Static IP • DHCP Client • Clone MAC
Router	• NAT/ NAPT • Static Routing • Dynamic Route • Virtual Server Mapping • IP Address Mapping • Port Forwarding • Port Triggering • Special Application • ALG (Application Layer Gateway), supports (RTP/RTSP, AOL, FTP, CMP, WMP/MMS, NetMeeting, SIP) • DNS Relay • DDNS Time Zone (NTP client)

Firewall	• Ping blocking
	• DoS (Blocking Ping, Port scan, Sync Flood)
	• MAC / IP Filtering
	• ICMP Blocking
	• SPI (Stateful Packet Inspection)
	• DMZ (Demilitarized Zone) Host
	• Policy Based Parental Controls
	  • Port Range / Service Filtering
	  • Internet Domain Restriction
	  • Dynamic URL Filtering / Keyword Filtering

VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	• **Power Saving (Green Technology)** • 64/128 bit WEP Encryption • WPA Personal (WPA-PSK using TKIP or AES) • WPA Enterprise (WPA-EAP using TKIP) • 802.1x Authenticator • Hide SSID in beacons • Wi-Fi Protected Setup™ (WPS™) • WDS • ACL control • Best channel selection • Speed / Bandwidth monitor

QoS	• WMM (Wi-Fi Multimedia)
	• Application base
	  o Priority Queue
	  o Bandwidth Allocation

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ENHWI-N3 Management

Configuration	Web-based configuration (HTTP) using popular web browsers
Firmware Upgrade	• Via webpage upgrade • Auto recovery once firmware upgrade fail
Administrator Setting	• Administrator password change • Idle time out
Reset Setting	• Reboot • Reset to Factory Default
System monitoring	• Speed and Bandwidth monitoring
Scheduling	• Enable Firewall • Enable power saving
Easy access	• User can type model name and access the main page.
Install smart wizard	• Guide the users for a user friendly initial router setup

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